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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,215	03/09/2004	Loc X. Phan	018563-001550US	4185	
	7590 11/28/2007 AND TOWNSEND AND CREW, LLP (018563)		EXAMINER		
TWO EMBAR	TWO EMBARCADERO CENTER, EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			BUMGARNER, MELBA N	
SAN FRANCIS	SCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
			3732		
			MAIL DATE	DELIVERY MODE	
			11/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)		
	10/797,215	PHAN ET AL.		
Office Action Summary	Examiner	Art Unit		
The MAN INCOME.	Melba Bumgarner	3732		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 25 O	<u>ctober 2007</u> .	,		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>24,25 and 28</u> is/are pending in the ap	plication.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>24,25 and 28</u> is/are rejected.				
7) Claim(s) is/are objected to.	•			
8) Claim(s) are subject to restriction and/o	r election requirement.			
Application Papers				
9) The specification is objected to by the Examine	er.			
10) The drawing(s) filed on is/are: a) □ acc	epted or b) objected to by the	Examiner.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correct	, -, -			
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage		
* See the attached detailed Office action for a list	or the certified copies not receive	z u.		
Attachment(s)	. П <u>-</u>	· (DTO 442)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal I	Patent Application		

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Art Unit: 3732

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 24 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Parker (5,267,862). Parker discloses a removable elastic positioning appliance (column 10 line 20) comprising a shell having a hollow cavity shaped to receive teeth and capable of repositioning teeth, the shell having at least one protrusion 60 disposed along an edge of the hollow cavity (figure 10), as it is approximately the same distance from the edge of the hollow cavity as the claimed invention of figure 15B, which protrusion contacts a plurality of teeth to assist in holding the appliance in position (column 8 line 66), the at least one protrusion comprises continuous protrusion configured to fit in the undercut of the teeth (column 8 line 67) and to contact the teeth along the length of gingival margin and interdental areas. The appliance has at least one additional protrusion. It is the grooves in the cast that are used to make the protrusions.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parker in view of Bergersen (5,645,420). Parker discloses an appliance that shows the limitations as described above; however, Parker does not show the protrusion mountable on the appliance. It would have been an obvious matter of choice to one of ordinary skill in the art as to how the protrusion is formed as the specification states that the protrusions may be sized, formed and located in any combination; however, Bergersen is used to show a mountable protrusion 60 on the appliance. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the protrusion mountable on the appliance in order to form the protrusion in the mouth of the patient in view of Bergersen.

Response to Arguments

5. Applicant's arguments filed October 25, 2007 have been fully considered but they are not persuasive. The prior art show the claimed structural limitations of the claims. It is believed that the claimed intended use in which the applicant further defines the parts of the dental structure, although it does not patentably distinguish the claims from the prior art, is shown in Parker, such that Parker states that the height of contour of each tooth lies occlusal to the projections, which is the same as saying the projections lie in the undercut of each tooth, and that the grooves are cut adjacent to the gum line, which is understood as along the length of the gingival margin and interdental areas. It is noted that Parker also states that the flex outward in the sides of the shell in the figure is exaggerated to better illustrate the attachment means.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is 571-272-4709. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriquez can be reached at 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melba Bumgarner

Primary Examiner

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